AN - 1992-205369 [25]
AP - JP19900258281 19900927
CPY - MITV
DC - L02 M13 P54 P56
FS - CPI;GMPI
IC - B23B27/14 ; B23P15/28 ; C23C14/02 ; C23C14/06 ; C23C16/02 ; C23C16/30
MC - L02-F03 L02-F04 L02-J01E M13-H04
PA - (MITV) MITSUBISHI MATERIALS CORP
PN - JP4136174 A 19920511 DW199225 C23C16/30 004pp
PR - JP19900258281 19900927
XA - C1992-093567
XIC - B23B-027/14 ; B23P-015/28 ; C23C-014/02 ; C23C-014/06 ; C23C-016/02 ; C23C-016/30
XP - N1992-155322
AB - J04136174 The surface coated cutting tool is made by heating a matrix comprising Si-nitride-base ceramic or sialon-base ceramic, of which surface has been ground in N2-contg. atmos. at 1050-1400 deg.C, for matrix surface modification treatment, followed by forming hard coating layer by usual conditions of vapour deposition.
- USE - Used for making ceramic cutting tools coated with hard coating layer.
IW - SURFACE COATING CERAMIC CUT TOOL PRODUCE GRIND SURFACE HIGH TEMPERATURE NITROGEN@ ATMOSPHERE HEAT EFFECT SURFACE MODIFIED HIGH COATING ADHESIVE
IKW - SURFACE COATING CERAMIC CUT TOOL PRODUCE GRIND SURFACE HIGH TEMPERATURE NITROGEN@ ATMOSPHERE HEAT EFFECT SURFACE MODIFIED HIGH COATING ADHESIVE
NC - 001
OPD - 1990-09-27
ORD - 1992-05-11
PAW - (MITV) MITSUBISHI MATERIALS CORP
TI - Surface coated ceramic cutting tool prodn. - by grinding surface at high temp. in nitrogen@ atmos., heating to effect surface modification etc. for high coating adhesion

102(b) 1, 2, 5, 48, 49

XP 000191903

6001 Chemical Abstracts
106(1987)15 June, No.24, Columbus, OH, US

P. 281

C04B41/50P

106: 200705c Corrosion-resistant ceramics. Yamamoto, Hiroichi; Oguro, Takashi; Tsunoda, Hideo; Motomura, Hikari (Mitsubishi Heavy Industries, Ltd.) Jpn. Kokai Tokkyo Koho JP 62 52,192 [87 52,192] (Cl. C04B41/87), 06 Mar 1987, Appl. 85/189,734, 30 Aug 1985; 4 pp. Aluminosilicate- or zircon-based oxide films are formed on the surface of Si-contg. nonoxide ceramics TO improve their corrosion resistance. Thus, a Si_3N_4 ceramic was covered with Al_2O_3 powder (diam. 0.6 μ), and heated at 1200° for 5 h to form a surface layer consisting of $3Al_2O_3.2SiO_2$. When its corrosion resistance was tested with synthetic ash at 800°, the corrosion loss was 0.75, vs. 2.7 mg/mm² for an untreated sample.